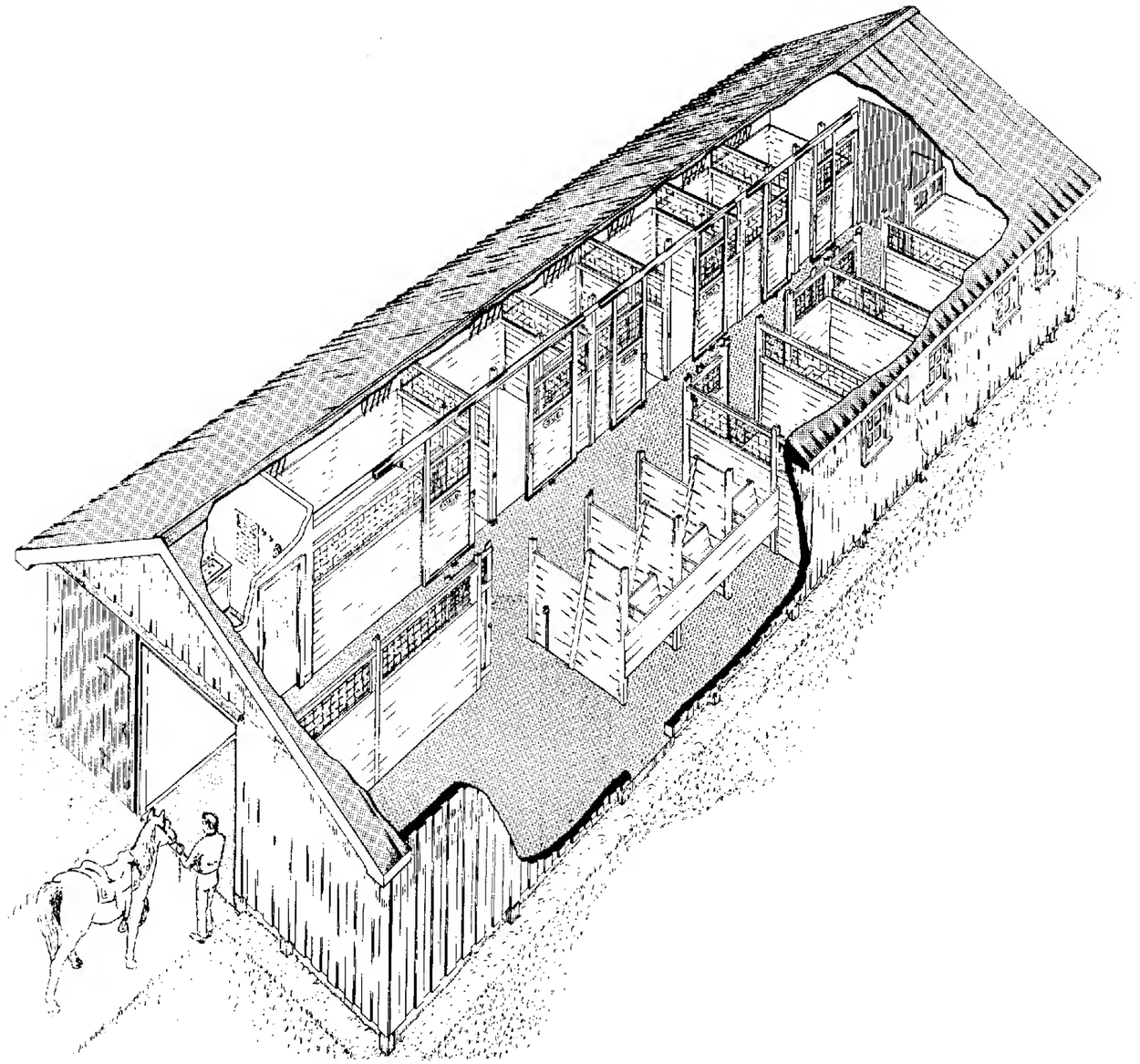
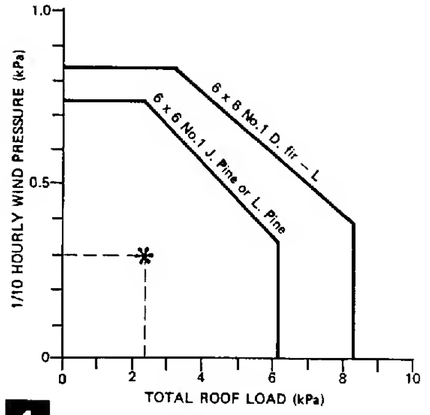




1

EXAMPLE

Determine pole size for Edmunston, N.B. (ground snow load 3.5 kPa, 1/10 hourly wind pressure 0.30 kPa).

If the roof is fully exposed to wind, the total roof load is:

0.6 x 3.5 (snow) + 0.2 (dead) = 2.3 kPa

Enter the pole selection chart at 2.3 kPa total roof load and 0.30 kPa wind pressure (see *)

6 x 6 Jack Pine or Lodgepole Pine poles would be adequate.

2

Plate beam safe uniform total roof load, kPa

Plate beam No.2 S-P-F	Truss spacing, inches on centre 48	32	24
2 - 2 x 8	1.60	1.35	1.29
2 - 2 x 10	2.40	1.94	1.75
2 - 2 x 12	3.06	2.37	2.13
No.2 D. Fir			
2 - 2 x 8	1.36	1.15	1.09
2 - 2 x 10	2.03	1.71	1.63
2 - 2 x 12	2.73	2.31	2.20

1 pole selection chart

2 plate beam selection table

SPECIFICATIONS

Unless otherwise specified, all cast-in-place concrete is to be at least 3000 psi @ 28 days, 6% air entrained.

All reinforcing steel to be at least 40,000 psi deformed bars; provide 2" concrete cover over reinforcing steel.

All exposed steel to be galvanized or painted to resist corrosion from moisture and manure gases.

All framing lumber is No. 2 (or better), S-P-F species group, unless otherwise specified.

All wood indicated 'pressure-treated' is CCA pressure-treated to a net retention of 0.4 lb/ft^3 (ground contact specification, CSA-080 Wood Preservation).

All nails exposed to treated wood, humid atmosphere or weather to be hot-dip galvanized.

This plan is designed to meet the requirements of the Canadian Farm Building Code.

Notes thus marked indicate where this plan gives structural choices to be selected to meet local climatic loads (wind, snow), soil bearing capacity and other local conditions. The plan user must ensure that these requirements are met. Consult an engineer if you are not familiar with the details required.

ONE SET OF DRAWINGS AND LEAFLETS SHOULD INCLUDE:

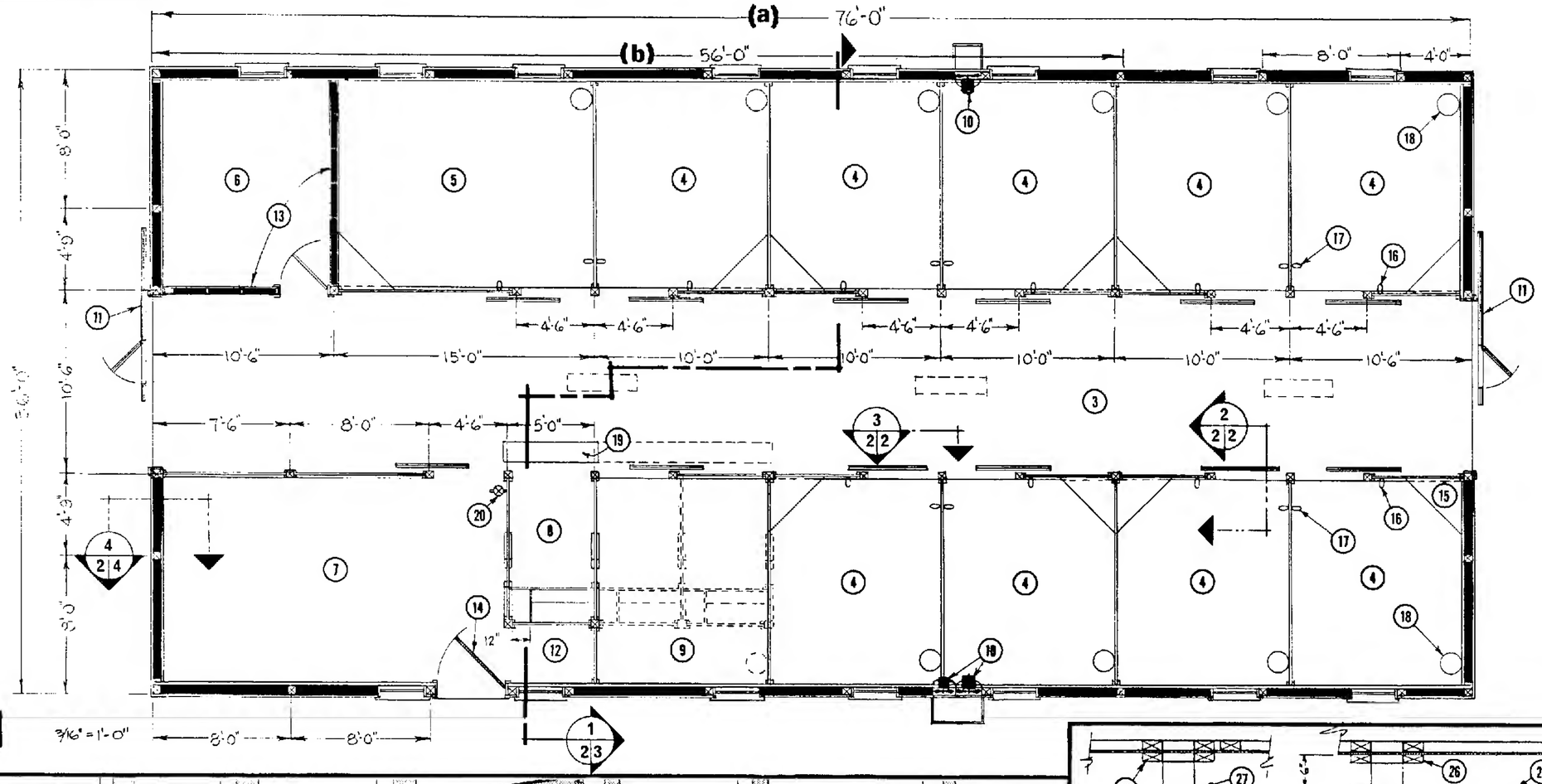
CPS no.	sheet no.	Title
8202	-1-	Barn for riding horses (6 or 10 box stalls)
8202	-2-	Floor plan and details
8202	-3-	Section and details
8202	-4-	Ventilation, heating & details Truss design and spacing to suit local snow + dead load
AND LEAFLETS		
8202		Barn for riding horses (6 or 10 box stalls)
9102		Truss erecting and bracing
9451		Rodent and bird control in farm buildings

SYM	REVISIONS	CHECKED	DATE	APPROVED
	REVISED & RE-ISSUED	H.A.J	88 – 01	JET

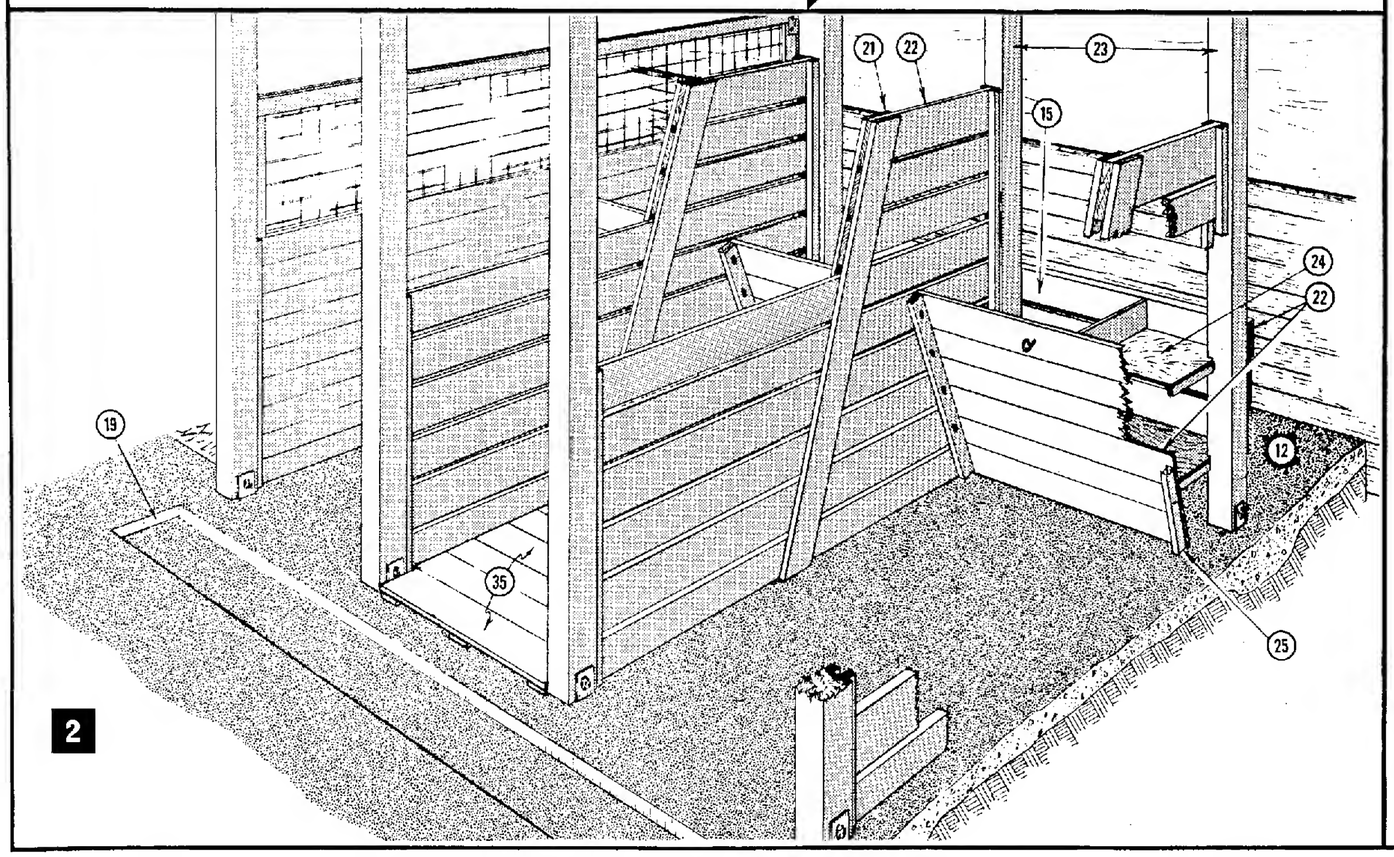
CANADA PLAN SERVICE

BARN FOR RIDING HORSES
6 OR 10 BOX STALLS

DESIGNED JET	DATE 72 – 11	PLAN 8202
DRAWN L.BLAIS	REVISED	
TRACED	DETAIL NUMBER A ORIGINATES ON SHEET B DRAWN ON SHEET C	SHEET 1 OF 4
CHECKED H.A.J.		



1



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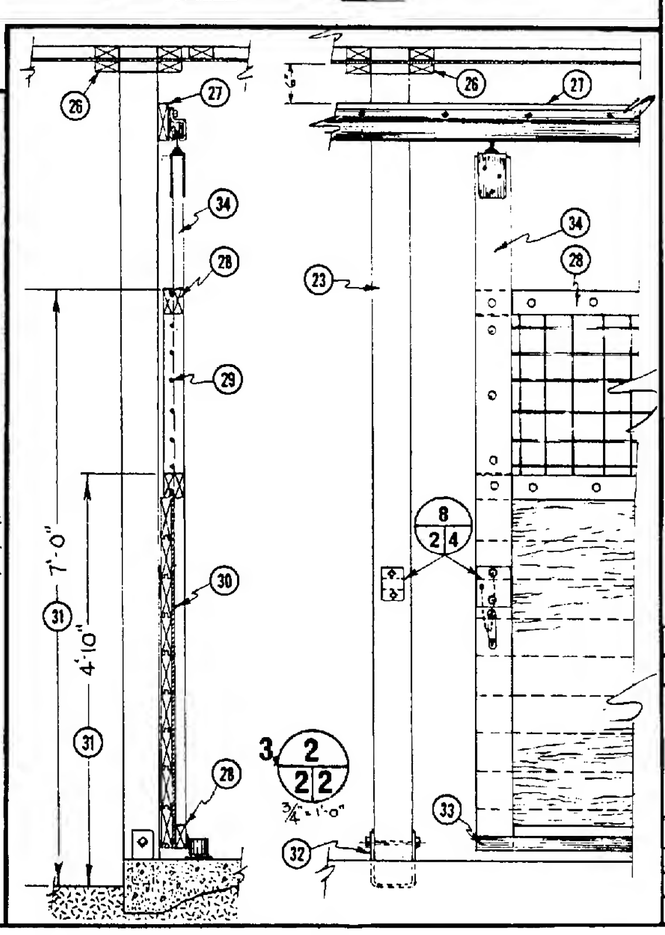


1 floor plan (a) 10 stall horse barn, 76'-0"
(b) 6 stall horse barn, 56'-0"

2 pictorial view of tie stall construction

3 work alley, concrete floor

4 box stall, clay floor (alternatives: plank, asphalt or concrete floor)

5 foaling pen, clay floor

6 tack room, concrete floor

7 feed and bedding storage, concrete floor

8 tie stall, concrete, plank on concrete, or asphalt floor

9 option, 1 box stall (④) or 2 tie stalls (⑧)

10 exhaust fans (see sheet 4)

11 10'-0" x 8'-6" insulated slide door c/w 2'-0" x 6'-0" man door, secure sliding door with 2 turnbuckle hooks recessed into side jamb

12 feed passage concrete floor

13 insulated stud wall, sheathed floor to ceiling

14 4'-0" x 8'-0" insulated door

15 hay manger

16 screw eye for grain bucket

17 screw eye for water bucket

18 mineral bowl

19 14" x 2" gutter at tie stall

20 hose bib; frostproof hydrant if risk of freezing

21 1 x 6 both sides

22 2" planking

23 6 x 6 posts, butt dipped in preservative after drilling for (32)

24 grain trough

25 2 x 4 bolted through

26 2 x 4 blocks 4 sides of post, and in ceiling

27 2 x 6 track board

28 2 x 4 framing, 3/8" carriage bolts @ 12" o.c., nuts recessed

29 4 x 4 x 6/6 welded wire mesh

30 ¼" plywood (at doors only)

31 height to match stall dividers

32 ¼" x 3" x 24" U-strap in concrete, ½" diam. bolt thru post

33 2" wide galv. metal strap

34 2 x 6 upright

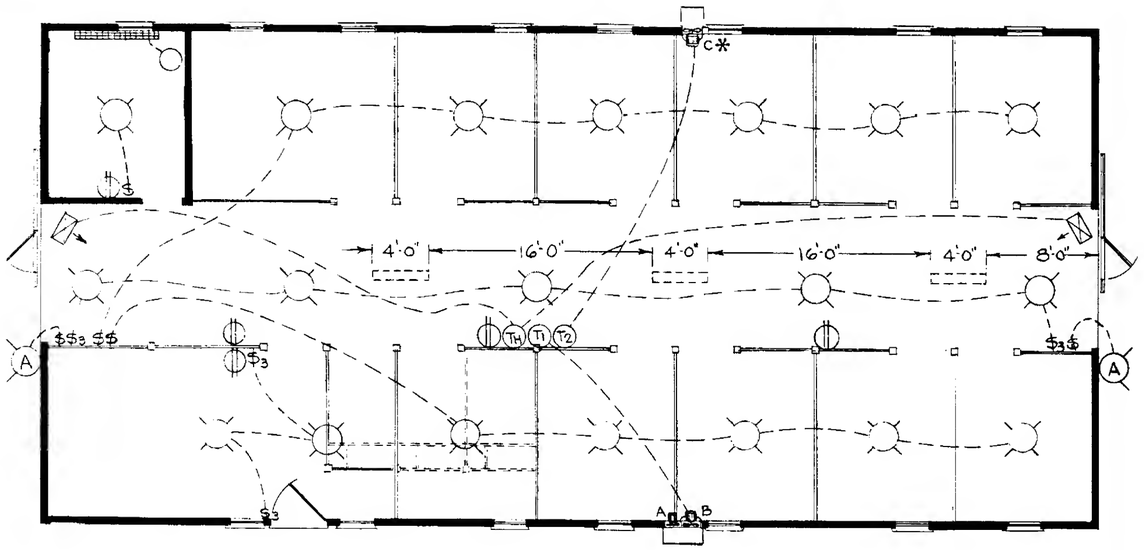
35 optional 2" plank floor on 1 x 3 sleepers

SYM	REVISIONS	CHECKED	DATE	APPROVED
	REVISED & RE-ISSUED	H.A.J.	88 – 01	J.E.T.

CANADA PLAN SERVICE

FLOOR PLAN & DETAILS

DESIGNED J.E.T.	DATE 72 – 11	PLAN 8202
DRAWN L. BLAIS	REVISED	
TRACED	DETAIL NUMBER A ORIGINATES ON SHEET B DRAWN ON SHEET C	SHEET 2 OF 4
CHECKED H.A.J.		

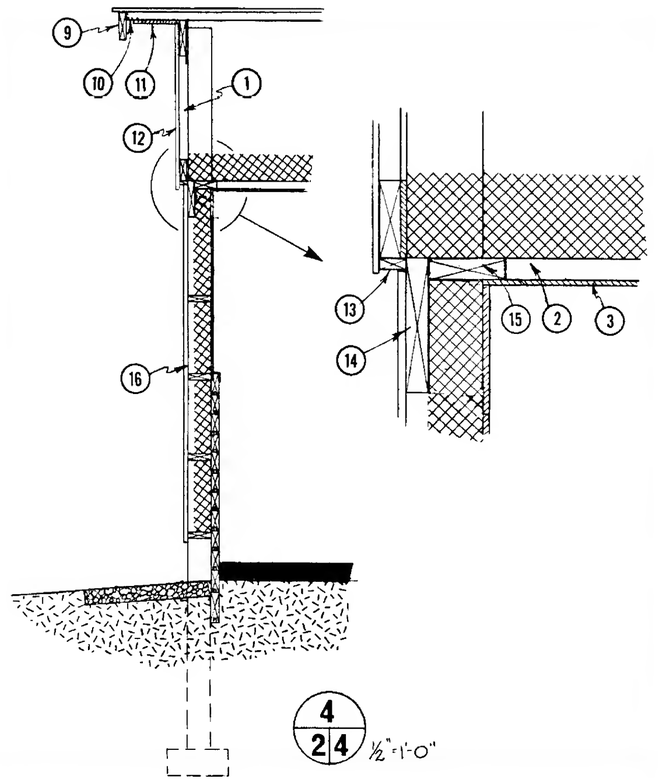


1/8"=1'-0"

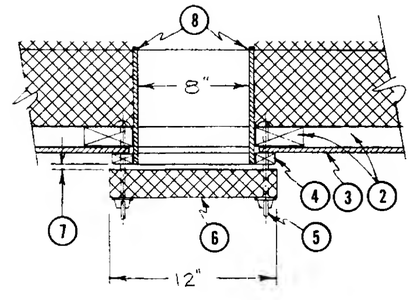
VENTILATION & HEATING SCHEDULE

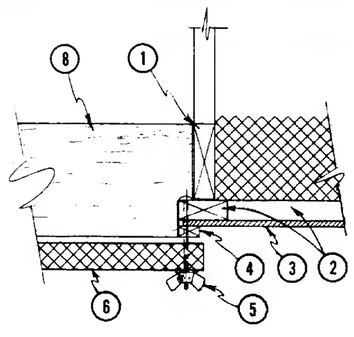
UNIT	TYPE	CAPACITY	THERMOSTAT CONTROL	ON AT	OFF AT	INLET ADJUSTMENT
FAN A	Single speed exhaust	500 cfm @ 1/8" s.p.	Continuous			Cold weather - 3/16"
FAN B	Single speed exhaust	1200 cfm @ 1/8" s.p.	T_1	52°	50°	Mild weather - 3/4"
FAN C	Single speed exhaust	2000 cfm @ 1/8" s.p.	T_2*	62°	60°	Hot weather - open end doors and windows, ceiling inlets closed
UNIT HEATERS	Fan-forced	(see power supplier or heating contractor)	T_H	45°	47°	

* Fan C and thermostat T_2 are optional. If automatic temperature control is not required in mild weather, open windows for extra ventilation as required.

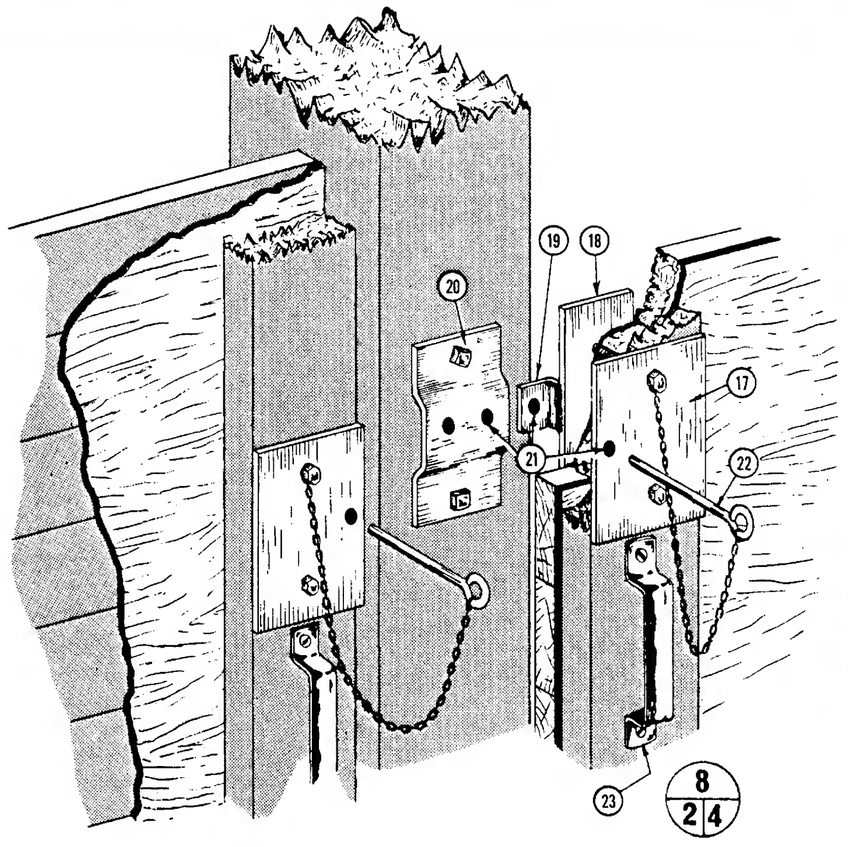


4/24 1/2"=1'-0"





7/34 1½"=1'-0"



8/24

1 36'-0" trusses, select truss and spacing to suit local snow load, end trusses to have gussets on inside face only

2 2 x 4 nailing girts @ 4'-0" o.c.

3 3/8" plywood ceiling

4 1 x 2 trim, 4 sides of opening

5 ¼" diam. plated carriage bolts, washer and wing nuts for inlet adjustments, 6 per inlet

6 2" extruded polystyrene baffle

7 see ventilation table for inlet adjustment

8 3/8" plywood baffle

9 2 x 8 face board

10 2" screened inlet, continuous

11 3/4" wood soffit

12 outside cladding

13 1 x 2 filler piece

14 2 x 10 beam notched into post

15 2 x 6 blocking

16 endwall construction similar to side wall (see sheet 3)

17 1/8" x 5½" x 6" steel outer plate, drilled for 2 - 3/8" diam. bolts

18 1/8" x 4" x 6" steel inner plate, drilled for 2 - 3/8" diam. bolts

19 1/8" x 1½" high x approx. 2" long; bend and weld to (18) as shown

20 1/8" x 3" wide x 6" long, bend to suit (19), drill for 2 - 3/8" diam. lag bolts

21 (17), (18) & (20) to be bolted in place and a 3/8" diam. locking hole to be drilled to receive (22)

22 3/8" diam. locking pin

23 door pull

$ lighting switch

$3 three way lighting switch

(A) 150 watt par 30 floodlight

100 watt incandescent pigtail light fixture

115 volts, duplex convenience outlet

(TH) (T1) (T2) ventilation thermostat, mounted 5'-6" from floor

1 kw base board unit heater (with thermostat) if tack room has insulated walls floor to ceiling

fan forced unit heater, bracket hung

SYM	REVISIONS	CHECKED	DATE	APPROVED
	REVISED & RE-ISSUED	H.A.J.	88-01	JET

CANADA PLAN SERVICE

VENTILATION, HEATING & DETAILS

DESIGNED J.E.T.	DATE 72-11	PLAN 8202
DRAWN L. BLAIS	REVISED	
TRACED	DETAIL NUMBER A, ORIGINATES ON SHEET B, DRAWN ON SHEET C	SHEET 4 OF 4
CHECKED H.A.J.		